

PUB-N0: JP02000355735A

DOCUMENT-IDENTIFIER: JP 2000355735 A

TITLE: HOT ROLLED HIGH STRENGTH STEEL SHEET SMALL IN VARIATION OF MATERIAL AND EXCELLENT IN WORKABILITY AND ITS PRODUCTION

PUBN-DATE: December 26, 2000

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APPL-N0: JP11168075

APPL-DATE: June 15, 1999

INT-CL (IPC): C22C 38/00; C21D 8/02; C21D 9/46; C22C 38/06; C22C 38/58

ABSTRACT:

PROBLEM TO BE SOLVED: To produce a hot rolled high strength steel sheet small in the variation of the material and to provide a method for producing it.

SOLUTION: This steel sheet has a compsn. contg., as chemical components, by weight, 0.15 to 0.3% C, 0.5 to 3.0% Si, 0.5 to 3.0% Mn, 0.1% P, 0.05% S, 0.1% Al and 0.1% N, in which the content of B as impurities is limited to 0.005%, and the balance Fe with inevitable impurities and a structure composed of ferrite in which the ratio between the occupying volume rate VPF (%) of polygonal ferrite and the average grain diameter dPF (μm) of polygonal ferrite, i.e., VPF/dPF is 7 and also contg. retained austenite of 5% by volume ratio, bainite and retained austenite as microstructures, in which, as characteristics, the balance of strength-ductility, i.e., TSiAT. El is 20,000 (MPa.%), and also, its variation in a coil is <3,000 (MPa.%).

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